PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. Department of Commerce

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

	Complete if Known
Application No.	10/645,863
Filing Date	8/20/03
First Named Inventor	Heller
Art Unit	~~Not yet assigned~~ 1631
Examiner Name	~~Not yet assigned~~ EDJ
Sheet 1 Of 4	Attorney Docket No. 29191-707

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.[1]	Document No. Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
EDJ		US-6,068,749	5/30/00	Karger et al.	
		US-5,872,010	2/16/99	Karger et al.	
		US-5,917,184	6/29/99	Carson et al.	
		US-5,958,202	9/28/99	Regnier et al.	
		US-6,375,817	4/23/02	Taylor et al.	
		US-6,175,112	1/16/01	Karger et al.	
		US-6,342,142	1/29/02	Ramsey et al.	
		US-6,231,737	5/15/01	Ramsey et al.	
		US-6,033,546	3/7/00	Ramsey	
		US-6,358,692	3/19/02	Jindal et al.	
		US-5,856,671	1/5/99	Henion et al.	
		US-6,207,954	3/27/01	Andrien, Jr. et al.	
		US-6,139,734	10/31/00	Settlage, et al.	
		US-5,245,186	9/14/93	Chait et al.	
		US-5,045,694	9/3/91	Beavis et al.	
		US-4,977,320	12/11/90	Chowdhury et al.	
		US-6,318,970	11/20/01	Backhouse	
		US-6,368,562	4/9/02	Yao	
		US-5,993,633	11/30/99	Smith et al.	
		US-6,187,190	2/13/01	Smith et al.	
		US-6,107,628	8/22/00	Smith et al.	
		US-5,545,304	8/13/96	Smith et al.	
		US-5,833,861	11/10/98	Afeyan et al.	
		US-5,952,653	9/14/99	Covey et al.	
EXAMINER SIGNATURE				DATE CONSIDERED	01/18/2005 EDJ

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
1 Applicant's unique citation designation number (optional) 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST .3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. Department of Commerce
Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

	Complete if Known
Application No.	10/645,863
Filing Date	8/20/03
First Named Inventor	Heller
Art Unit	~~Not yet assigned~~ 1631
Examiner Name	~~Not yet assigned~~ EDJ
Sheet 2 Of 4	Attorney Docket No. 29191-707

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.[1]	Document No. Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
EDJ		US-5,393,975	2/28/95	Hall et al.	
		US-6,322,682	11/27/01	Arvidsson et al.	
		US-6,379,791	4/30/02	Schneider et al.	
		US-6,017,693	1/25/00	Yates III, et al.	
		US-4,483,885	11/20/84	Chait et al.	
		US-4,443,319	4/17/84	Chait et al.	
		US-5,599,432	2/4/97	Manz et al.	
		US-5,296,114	3/22/94	Manz	
		US-6,086,243	7/11/00	Paul et al.	
		US-6,091,502	7/18/00	Weigl et al.	
		US-6,159,739	12/12/00	Weigl et al.	
		US-6,277,641	8/21/01	Yager	
		US-5,624,539	4/29/97	Ewing et al.	
		US-5,358,618	10/25/94	Ewing et al.	
		US-6,284,113	9/4/01	Bjornson et al.	
		US-6,280,589	8/28/01	Manz et al.	
		US-6,240,790	6/5/01	Swedberg et al.	
		US-6,284,115	9/4/01	Apffel	
		US-2002/0039747	4/4/02	Lubman et al.	
		US-2002/0054289	5/9/02	Thibault et al.	
		US-2002/0036140	3/28/02	Manz et al.	
		US-2002/0041827	4/11/02	Yager et al.	
		US-2001/0014461	8/16/01	Hutchens et al.	
EXAMINER SIGNATURE				DATE CONSIDERED	01/18/2005 EDJ

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
1 Applicant's unique citation designation number (optional) 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST .3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. Department of Commerce
Under the paperwork reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Kn wn***	
				Application No.	10/645,863
				Filing Date	8/20/03
				First Named Inventor	Heller
				Art Unit	~~Not yet assigned~~ 1631
				Examiner Name	~~Not yet assigned~~ EDS
Sheet	3	**Of**	4	**Attorney Docket No.**	29191-707

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.1	Foreign Patent Document Country Code[3] – Number[4] – Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
EDS		WO 00/65472	11/2/00	Ringold et al.		
		WO 02/06829	1/24/02	Hitt et al.		
EXAMINER SIGNATURE	Erin DeGuzman			DATE CONSIDERED	01/18/2005	

OTHER PRIOR ART – NON PATENT RELATED DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T[2]
EDS		ADAM, Bao-Ling, et al. "Serum protein fingerprinting coupled with a pattern-matching algorithm distinguishes prostate cancer from benign prostate hyperplasia and healthy men". *Cancer Research*, (2002) 62:3609-3614.	
		BERTERO, M., "Linear inverse and ill-posed problems". *In Advances in Electronics and Electronic Physics. Academic Press*, (1989), NY.	
		DONOHO, D. L. "Nonlinear solution of linear inverse problems by wavelet-vaguelette decomposition". *App. and Comp. Harmonic Analysis*, (1995), 2:101-126.	
		DONOHO, D. L. "Unconditional bases are optimal bases for data compression and for statistical estimation". *Applied and Computational Harmonic Analysis*, (1993), 1(1):100-115.	
		DONOHO, D. L., et al. "Adapting to unknown smoothness via wavelet shrinkage". *Journal of the American Statistical Association*, (1995), 90(432):1200-1224.	
		GUYON, I, et al. "An introduction to variable and feature selection". *JMLR*, (2003), 1:1-48.	
		KALIFA, Jerome, et al. "Minimax Deconvolution in Mirror Wavelet Bases". *IEEE Trans. on Image Processing*. (1999), 1-30.	
EXAMINER SIGNATURE	Erin DeGuzman	DATE CONSIDERED	01/18/2005 EDS		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
1 Applicant's unique citation designation number (optional) 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST .3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. Department of Commerce
Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				Complete if Known	
				Application No.	10/645,863
				Filing Date	8/20/03
				First Named Inventor	Heller et al.
				Art Unit	~~Not assigned yet~~ 1631
				Examiner Name	~~Not assigned yet~~ EDJ
Sheet	4	**Of**	4	**Attorney Docket No.**	29191-707

OTHER PRIOR ART – NON PATENT RELATED DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T[2]
EDJ		KALIFA, Jerome, et al. "Thresholding Estimators for Linear Inverse Problems and Deconvolutions". *Annals of Statistics* (2003), no. 1, 58-109.	
		PETRICOIN III, E. F., et al., "Serum proteomic patterns for detection of prostate cancer". *JNCI*, (2002), 94(20):1576-1578.	
		PETRICOIN III, E. F., et al., "Use of proteomic patterns in serum to identify ovarian cancer". *The Lancet*, (2002), 359:572-577.	
		STRAND, O. N. "Theory and methods related to the singular function expansion and landweber's iteration for integral equations of the first kind". *SIAM J. Num. Anal.*, (1973), 5.	
		STRITTMATTER, E. F., et al., "High mass measurement accuracy determination for proteomics using multivariate regression fitting: application to electrospray ionization time-of-flight mass spectrometry". *Anal. Chem.*, (2003), 75(3):460-468.	
		TIBSHIRANI, Robert "Regression shrinkage and selection via the lasso". *J. Royal Statist. Soc.*, (1996), 58:267-288.	
		TIKHONOV, A. N. "Solution of incorrectly formulated problems and the regularization method". *Soviet Math.* Doklady, (1963), 4:1035-1038.	
		VESTAL, M., et al. "Resolution and Mass Accuracy in Matrix-Assisted Laser Desorption Ionization-Time-of-Flight", *J. Am. Soc. Mass Spectrom.*, (1998), 9, 892-911	
		WEHOFSKY, M., et al. "Isotopic deconvolution of matrix-assisted laser desorption/ionization mass spectra for substance class specific analysis of complex samples", (2001), 7:39-46.	
		CHEN , S.S. et al. "Atomic decomposition by basis pursuit". SIAM Journal on Scientific Computing, (1988), 20(1):33-61.	
		WEHOFSKY, M., et al. "Automated deconvolution and deisotoping of electrospray mass spectra". *J. Mass Spectrom.*, (2002), 37(2):223-229.	
		SERVICE, R.F., "Recruiting genes, proteins for a revolution in diagnostics". *Science*, (4/11/03), 300:236-239	
EXAMINER SIGNATURE		DATE CONSIDERED	01/18/2005 EDJ

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	6

Complete if Known	
Application Number	10/645,863
Filing Date	August 20, 2003
First Named Inventor	Jonathan C. HELLER et al.
Art Unit	~~2855~~ 1631
Examiner Name	~~Unassigned~~ EDJ
Attorney Docket Number	29191-707

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
EDJ		US-5,227,471	07-13-1993	Wright, Jr.	
		US-5,314,996	05-24-1994	Wright, Jr.	
		US-5,639,656	06-17-1997	Wright, Jr.	
		US-6,157,921	12-05-2000	Barnhill	
		US-6,207,370-B1	03-27-2001	Little et al.	
		US-6,306,087-B1	10-23-2001	Barnhill et al.	
		US-6,309,816-B1	10-30-2001	Zhang et al.	
		US-6,363,383-B1	03-26-2002	Kindo et al.	
		US-6,427,141-B1	07-30-2002	Barnhill	
		US-6,558,955-B1	05-06-2003	Kristal et al.	
		US-6,658,395-B1	12-02-2003	Barnhill	
		US-6,675,104-B1	01-06-2004	Paulse et al.	
		US-6,714,925-B1	03-30-2004	Barnhill et al.	
		US-2002/0095260-A1	07-18-2002	Huyn	
		US-2002/0138208-A1	09-26-2002	Paulse et al.	
		US-2002/0193950-A1	12-19-2002	Gavin et al.	
		US-2003/0004402-A1	01-02-2003	Hitt et al.	
		US-2003/0013120-A1	01-16-2003	Patz, Jr. et al.	
		US-2003/0077611-A1	04-24-2003	Slepnev	
		US-2003/0132114-A1	07-17-2003	Mischak et al.	
		US-2003/0134304-A1	07-17-2003	van der Greef et al.	
		US-2003/0148295-A1	08-07-2003	Wan et al.	
		US-2003/0148922-A1	08-07-2003	Knapp et al.	
		US-2003/0153007-A1	08-14-2003	Chen et al.	
		US-2003/0228639-A1	12-11-2003	Wright et al.	
		US-2004/0005634-A1	01-08-2004	Patz, Jr. et al.	
		US-2004/0018519-A1	01-29-2004	Wright, Jr.	
		US-2004/0029194-A1	02-12-2004	Parish et al.	
		US-2004/0043436-A1	03-04-2004	Vlahou et al.	

Examiner Signature		Date Considered	01/18/2004

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1]Applicant's unique citation designation number (optional). [2]See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3]Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4]For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5]Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6]Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	6	Attorney Docket Number	29191-707

Complete if Known	
Application Number	10/645,863
Filing Date	August 20, 2003
First Named Inventor	Jonathan C. HELLER et al.
Art Unit	~~2855~~ 1631
Examiner Name	~~Unassigned~~ EDS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] – Number[4] – Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
EDS		WO-95/25281-A1	09-21-1995	Univ. of Washington		
		WO-01/25791-A2	04-12-2001	Ciphergen Biosystems, Inc.		
		WO-01/36977-A2	05-25-2001	Matritech, Inc.		
		WO-01/57263-A1	08-09-2001	Advion Biosciences, Inc.		
		WO-01/57518-A2	08-09-2001	Yolbolsum Canada Inc.		
		WO-01/71360-A2	09-27-2001	Eastern Virginia Medical School		
		WO-02/04957-A2	01-17-2002	Esperion Therapeutics, Inc.		
		WO-02/08760-A1	01-31-2002	Biotron Limited		
		WO-02/97703-A2	12-05-2002	Emili, Andrew et al.		
		WO-02/27329-A2	04-04-2002	Eastern Virginia Medical School		
		WO-02/46448-A2	06-13-2002	Eastern Virginia Medical School		
		WO-03/14302-A2	02-20-2003	MDS Proteomics, Inc.		
		WO-03/31031-A1	04-14-2003	Ciphergen Biosystems, Inc. et al.		
		WO-03/38055-A2	05-08-2003	MDS Proteomics, Inc.		
		WO-03/42774-A2	05-22-2003	Caprion Pharmaceuticals, Inc.		
		WO-03/72710-A2	09-04-2003	Eastern Virginia Medical School		
		WO-03/83442-A2	10-09-2003	Perlegen Sciences, Inc.		
		WO-03/91695-A2	11-06-2003	Johns Hopkins Univ.		
		WO-03/97799-A2	11-27-2003	Eastern Virginia Medical School		

Examiner signature		Date Considered	01/18/2004

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	10/645,863
	Filing Date	August 20, 2003
	First Named Inventor	Jonathan C. HELLER et al.
	Art Unit	~~2855~~ 1631
	Examiner Name	~~Unassigned~~ EDJ
Sheet 3 of 6	Attorney Docket Number	29191-707

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
EDJ		ADKINS, Joshua N., et al., "Toward a human blood serum proteome: analysis by multidimensional separation coupled with mass spectrometry". The American Society for Biochemistry and Molecular Biology, Inc., MCP Paper (November 15, 2002)	
		ANDERSON, Leigh, et al., "A comparison of selected mRNA and protein abundances in human liver". Electrophoresis (1997), 18:533-537.	
		ANDERSON, N. Leigh, et al., "The Human Plasma Proteome". Molecular & Cellular Proteomics (2002), 1:845-867.	
		BANEZ, Lionel L., et al., "Diagnostic potential of serum proteomic patterns in prostate cancer". The Journal of Urology (2003) 170:442-446.	
		BILLINGSLEY, Janice, "Research offers hope in fight against ovarian cancer". Health & Science (Feb 8, 2002) 3 pages.	
		CAO, Ping et al., "Analysis of peptides, proteins, protein digests, and whole human blood by capillary electrophoresis/electrospray ionization-mass spectrometry using an in-capillary electrode sheathless interface". J Am Soc Mass Spectrometry (1998), 9:1081-1088.	
		CAZARES, L. H., et al., "Normal, benign, preneoplastic, and malignant prostate cells have distinct protein expression profiles resolved by surface enhanced laser desorption/ionization mass spectrometry". Clinical Cancer Research (August 2002) 8:2541-2552.	
		CBS News, "Setback for a silient killer". CBS News.com (April 2, 2002), 2 pages.	
		CRISP - Computer retrieval of information on scientific projects [abstract], <<http://commons.clt.nlh.gov/crisp3/CRISP_LIB.getdoc?textkey=6388327&p_grant_num=5R01 HG002033-03&p_query=&ticket=...>>. Downloaded May 9, 2002, 2 pages.	
		DIAMANDIS, Eleftherios P., "Point proteomic patterns in biological fluids: do they represent the future of cancer diagnostics?". Clinical Chemistry (2003) 49(8)1272-1278.	
		EDITORIAL, "Proteomic diagnostics tested". Nature (June 3, 2004), 429(3)487.	
		ETZIONI, Ruth, et al., "Combining biomarkers to detect disease with application to prostate cancer". Biostatistics (2003), 4(4)523-538.	
		ETZIONI, Ruth, et al., "The case for early detection". Nature Reviews/Cancer (April 2003), 3:1-10.	
		GERACIMOS, A., "Outwitting Ovarian Cancer". Correlogic Systems, Inc., Press Release dated April 16, 2002, 4 pages.	

Examiner signature		Date Considered	01/18/2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

	Complete if Known
Application Number	10/645,863
Filing Date	August 20, 2003
First Named Inventor	Jonathan C. HELLER et al.
Art Unit	~~2855~~ 1631
Examiner Name	~~Unassigned~~ EDJ
Attorney Docket Number	29191-707

Sheet 4 of 6

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
EDJ		GYGI, Steven P., "Correlation between protein and mRNA abundance in yeast". Molecular and Cellular Biology (March 1999) 1720-1730.	
		HARAN, Christine, "The promise of proteins - Do these tricky molecules hold the answers to cancer?". (October 2---) 43-46.	
		HARRISON, Harold H., et al., "Multiple serum protein abnormalities in carbohydrate-deficient glycoprotein syndrome: pathognomomic finding of two-dimensional electrophoresis?". Clinical Chemistry (1992), 38:1390-1392.	
		HENRY, Celia, "Diagnosing ovarian cancer - Proteomics shows promise of early detection of deadly disease". Science (Feb 18, 2003) 18.	
		HILARIO, Melanie, et al., "Machine learning approaches to lung cancer prediction from mass spectra". Protoemics (2003) 3:1716-1719.	
		HOLLON, Tom "Software Zeroes in on ovarian cancer". The Scientist (April 15, 2002) 16(8):16.	
		JOHANNES, Laura, "Tiny protein may lead to better screen test for prostate cancer". Dow Jones (Nov. 4, 2003), 1-2.	
		LEHRER, S., et al., "Putative protein markers in the sera of men with prostatic neoplasms". BJU International (2003) 92:223-225.	
		LEVINE, Peter, "Correlogic's ovarian cancer test nears market introduction". Diagnostic Testing and Technology Report (July 2003) 1:5-7.	
		LIOTTA, Lance A. et al., "Written in blood", Nature (10/30/2003), 425:905.	
		MARKEY, Mia K., et al. "Decision tree classification of proteins identified by mass spectrometry of blood serum samples from people with and without lung cancer". Proteomics (2003) 3:1678-1679.	
		MARSHALL, John, et al., "Processing of serum proteins underlies the mass spectral fingerprinting of myocardial infraction". Journal of Proteome Research (January 20, 2003) 12 pages.	
		MIAN, Shahid, et al., "A prototype methodology combining surface-enhanced laser desorption/ionization protein chip technology and artificial neural network algorithms to predict the chemoresponsiveness of breast cancer cell lines exposed to Paclitaxel and Doxorubicin under in vitro conditions". Proteomics (2003) 3:1725-1737.	
		MILLER, Jeremy C., et al., "Antibody microarray profiling of human prostate cancer sera: Antibody screening and identification of potential biomarkers". Proteomics (2003) 3:56-63.	

Examiner signature		Date Considered	01/18/2005

*EXAMINER: Initial if reference considered, ~~whether~~ or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use as many sheets as necessary)

	Complete if Known
Application Number	10/645,863
Filing Date	August 20, 2003
First Named Inventor	Jonathan C. HELLER et al.
Art Unit	~~2855~~ 1631
Examiner Name	~~Unassigned~~ EDJ
Attorney Docket Number	29191-707

Sheet 5 of 6

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
EDJ		NEVILLE, Padraic, et al., "Generalizable mass spectrometry mining used to identify disease state biomarkers from blood serum". Proteomics (2003) 3:1710-1715.	
		PUROHIT, Parul V., et al., "Discriminant models for high-throughput proteomics mass spectrometer data". Proteomics (2003) 3:1699-1703.	
		QU, Yinsheng, et al., "Boosted decision tree analysis of surface-enhanced laser desorption/ionization mass spectral serum profiles discriminates prostate cancer from noncancer patients". Clinical Chemistry (2002), 48(10):1835-1843.	
		RUBIN, Rita, "Blood test may spot ovarian cancer earlier". Health & Science (Feb 8, 2002) 2 pages.	
		SCHULTZ, Gary A. et al., "Development of a proteome marker model for ovarian cancer using direct analysis of diluted serum by automated nanoelectrospray TOFMS". ASMS (2003) 2 pages.	
		SILVA, Chris, "Small company, big partners - Bethesda-based Correlogic Systems enlists allies in quest to bring its concern detection test to market". Washington Business Journal (Aug 30-Sep 5, 2002) 2 pages.	
		SOMORJAI, R. L., et al., "Class prediction and discovery using gene microarray and proteomics mass spectroscopy data: curses, caveats, cautions". Bioinformatics (2003) 19(12):1484-1491.	
		SORACE, James M., et al., "A data review and re-assessment of ovarian cancer serum proteomic profiling". BMC Bioinformatics (2003) 4(24):1-13.	
		SORLIE, Therese, et al., "Gene expression patterns of breast carcinomas distinguish tumor subclasses with clinical implications". PNAS (September 11, 2001), 98(19)10869-10874.	
		SVEDBERG, Malin, et al., "Sheathless electrospray from polymer microchips". Anal. Chem. (2003) 75:3934-3940.	
		TATAY, Jacob W., "Multiple approaches to data-mining of proteomic data based on statistical and pattern classification methods", Proteomics (2003) 3:1704-1709.	
		TIRUMALAI, Radhakrishna S. et al., "Characterization of the low molecular weight human serum proteome", Molecular & Cellular Proteomics 2.10 (8/13/2003), 1096-1103.	
✓		TOUCHETTE, Nancy,."Diagnosing Ovarian Cancer by Proteomics". Genome News Network (2003), 2 pages.	

Examiner signature		Date Considered	01/18/2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

	Complete if Known
Application Number	10/645,863
Filing Date	August 20, 2003
First Named Inventor	Jonathan C. HELLER et al.
Art Unit	~~2855~~ 1631
Examiner Name	~~Unassigned~~ EDJ
Attorney Docket Number	29191-707

Sheet 6 of 6

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
EDJ		VAN 'T VEER, Laura, et al., "Gene expression profiling predicts clinical outcome of breast cancer". Nature (January 2002) 415:530-536.	
		VLAHOU, Antonia, et al., "Development of a novel proteomic approach for the detection of transitional cell carcinoma of the bladder in urine". American Journal of Pathology (April 2001), 158(4):1491-1502.	
		VOHRADSKY, J., "Adaptive classification of two-dimensional gel electrophoretic spot patterns by neural networks and cluster analysis". Electrophoresis (1997), 18:2749-2754.	
		WANG, Michael Z. et al., "Analysis of human serum proteins by liquid phase isoelectric focusing and matrix-assisted laser desorption/ionization-mass spectrometry", Proteomics (2003), 3:1661-1666.	
		WRIGHT, G.L. et al., "Proteinchip surface enhanced laser desorption/ionization (SELDI) mass spectrometry: a novel protein biochip technology for detection of prostate cancer biomarkers in complex protein mixtures". Prostate Cancer and Prostatic Diseases (1999) 2:264-276.	
		WU, Baolin et al., "Comparison of statistical methods for classification of ovarian cancer using mass spectrometry data", Bioinformatics (2003) 19(13):1636-1643.	
		WU, Shiaw-Lin, et al., "Targeted proteomics of low-level proteins in human plasma by LC/MSn: Using human growth hormone as a model system". Journal of Proteome Research (2002) 1:459-465.	
		YANAGISAWA, Kiyoshi, et al., "Proteomic patterns of tumour subsets in non-small-cell lung cancer". The Lancet (Aug 9, 2003), 362:433-439.	
		YASUI, Yataka, et al., "A data-analytic strategy for protein biomarker discovery: profiling of high-dimensional proteomic data for cancer detection". Biostatistics (2003) 4(3):449-463.	
		ZHU, Wei, et al. "Detection of cancer-specific markers amid massive mass spectral data". PNAS (December 9, 2003) 100(25):14666-14761.	
		ZHU, Hongtu, et al. "Tree-based disease classification using protein data". Proteomics (2003) 3:1673-1677.	
✓			

Examiner signature		Date Considered	01/18/2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.